## What is claimed:

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1. In a catheter for use in biliary procedures including a shaft having a proximal end and a distal end, the improvement comprising:

a guidewire lumen carried by the shaft extending from a location proximal the distal end of the shaft to a location proximate the distal end of the shaft; and

means for accessing the guidewire lumen from a location exterior to the catheter shaft, located distal the proximal end of the shaft.

- 2. The catheter of claim 1 wherein the guidewire lumen is formed integral the shaft.
- 3. The catheter of claim 1, wherein the means for accessing the guidewire lumen includes an opening extending through the wall of the catheter shaft into the guidewire lumen.
- 4. The catheter of claim 3, further wherein the wall of the catheter shaft defined by the guidewire lumen includes a relatively weak area extending longitudinally between the opening and the distal end of the shaft.
- 25 5. The catheter of claim 4, wherein the weak area is perforated.

- 6. The catheter of claim 3, further comprising a tool for guiding a guidewire into the opening.
- 7. The catheter of claim 1, wherein the means for accessing the lumen includes a slit in the wall of the catheter shaft.

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- 8. The catheter of claim 1, further including an ancillary lumen extending between the catheter proximal end and the catheter distal end.
  - 9. The catheter of claim 1, wherein the means for accessing the guidewire lumen includes:
    - a first opening through the wall of the catheter shaft into the guidewire lumen located proximal the distal end of the shaft;
      - a second opening through the wall of the shaft located proximal the first opening; and
      - a channel which gives access to the guide wire lumen extending longitudinally between the first opening and the second opening.
  - 10. The catheter of claim 9, wherein the channel includes an opening extending longitudinally between the first opening and the second opening in communication with the guidewire lumen.

- 11. A biliary rapid exchange catheter comprising:
- a biliary catheter sized for passage within an endoscope including a shaft having a proximal end and a distal end;
- a tubular member having a proximal end, a distal end, and a guidewire lumen extending longitudinally therethrough, the tubular member extending between a location proximate the distal end of the shaft and a location proximal of the distal end of the shaft; and
- a distal port in communication with the guidewire lumen, at a location proximal of the distal end of the shaft.
- 12. The biliary catheter of claim 11 wherein the distal port is located at the proximal end of the tubular member.
  - 13. The biliary catheter of claim 11, wherein the guidewire lumen extends between the proximal end and the distal end of the shaft.
  - 14. The biliary catheter of claim 11, wherein the guidewire lumen includes a weakened area extending longitudinally between the distal port and the distal end of the shaft.

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- 15. The biliary catheter of claim 11, further including an ancillary lumen extending between the proximal end and the distal end of the shaft.
- 5 16. The biliary catheter of claim 11, further including:
  a proximal port into the guidewire lumen at a
  location proximal of the distal port; and

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means extending longitudinally between the proximal port and the distal port for allowing a guidewire to be moved between a location exterior of the guidewire lumen and the guidewire lumen.

- 17. The biliary catheter of claim 16, wherein the means for allowing the guidewire to be moved between a location exterior the guidewire lumen and the guidewire lumen includes an open channel extending longitudinally between the proximal port and the distal port.
- 18. The biliary catheter of claim 16, wherein the means
  20 for allowing the guidewire to be moved between a location
  exterior the guidewire lumen and the guidewire lumen includes
  a weakened portion within the tubular member extending
  longitudinally between the proximal port and the distal port.
- 25 19. The biliary catheter of claim 18, wherein the weakened portion is perforated.

- 20. The biliary catheter of claim 11, wherein the tubular member is formed integral the shaft.
- 21. The biliary catheter of claim 11, wherein the tubular member is coupled to the shaft.

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22. A method of positioning a biliary catheter including a shaft having a proximal end and a distal end, within a patient's alimentary canal comprising the steps of:

providing a guidewire lumen within the catheter, extending from a location proximal the distal end of the shaft to a location proximate the distal end of the shaft;

providing a port through a sidewall of the shaft into the guidewire lumen, the port located distal of the proximal end of the shaft; and

moving a guidewire through the port, relative to the shaft.

- 23. The method of claim 22, further comprising the step of advancing the catheter over the guidewire.
  - 24. A method of exchanging a catheter during a biliary endoscopic procedure comprising the steps of:
- passing an endoscope having a lumen extending longitudinally therethrough, through a patient's mouth

into the alimentary canal;

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positioning a distal end of the endoscope proximate the opening into the biliary tree;

passing a guidewire through the lumen of the endoscope;

providing a catheter having a guidewire lumen carried by the shaft extending from a location proximal a distal end of the shaft to a location proximate the distal end of the shaft, including a first opening into the guidewire lumen located distal the proximal end of the shaft; and

advancing the catheter over the guidewire, wherein a proximal end of the guidewire exits the first opening.

- 15 25. The method of claim 24, further including the step of retracting the catheter over the guidewire.
  - 26. The method of claim 25, wherein the catheter is retracted over the guidewire until the opening is outside of the proximal end of the endoscope, wherein the catheter has a weakened area extending longitudinally between the opening and the distal end of the catheter, further comprising the step of peeling the catheter away from the guidewire.
- 27. The method of claim 24, wherein the catheter further includes a second opening into the guidewire lumen, with a

channel extending longitudinally between the first opening and the second opening, further comprising the step of passing the guidewire through the channel until the guidewire exits the second opening.

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28. The catheter of claim 10, wherein the guidewire lumen has a diameter, and the channel opening has a width allowing for radial guidewire removal.

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29. The catheter of claim 17, wherein the guidewire lumen has a diameter, and the open channel has a width allowing for radial guidewire removal.